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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative r(**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagra
obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event
the University of Waterloo. However, these diagrams are often very complex and do not provide the user with th(
the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Reviewed articles: Troubleshooting wireless mesh networks
Lili Qiu, Paramvir Bahl, Ananth Rao, Lidong Zhou
October 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 5
Publisher: ACM Press
Full text available: 📄 pdf(352.47 KB)   Additional Information: full citation, abstract, references, index terms

Effective network troubleshooting is critical for maintaining efficient and reliable network operation. Troubleshoot
challenging in multi-hop wireless networks because the behavior of such networks depends on complicated intera
many factors such as RF noise, signal propagation, node interference, and traffic flows. In this paper we propose
research on fault diagnosis in wireless mesh networks. Specifically, we present a diagnostic system that em ...

Keywords: fault diagnosis, mesh networks, simulation

3 Improving Network Operations With Intelligent Agents
Nathan J. Muller
July 1997 **International Journal of Network Management**, Volume 7 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: 📄 pdf(314.75 KB)   Additional Information: full citation, abstract, index terms

Automating network and system management tasks has never been easier, since the advent of intelligent agents
describes the uses and advantages of intelligent agents, to identify and resolve problems locally, instead of dispa
remote locations, which is both expensive and time‐consuming. © 1997 John Wiley & Sons, Ltd.

4
A hierarchical multicast monitoring scheme

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◈ B. Chandrasekaran, Todd R. Johnson, Jack W. Smith
September 1992 **Communications of the ACM**, Volume 35 Issue 9
Publisher: ACM Press
Full text available: 📄 pdf(2.77 MB)   Additional Information: full citation, references, citings, index terms

Keywords: analysis, modeling

182 An architecture for a secure service discovery service
◈ Steven E. Czerwinski, Ben Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz
August 1999   **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and**
Publisher: ACM Press
Full text available: 📄 pdf(1.47 MB)   Additional Information: full citation, references, citings, index terms

183 Fault-tolerance in air traffic control systems
◈ Flaviu Cristian, Bob Dancey, Jon Dehn
August 1996   **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(264.57 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group serve th
number of air traffic control systems. Either completed development or under development are the US Federal A\
Administration's Display System Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute Cente
and the Republic of China's Air Traffic Control Automated System (ATCAS). These systems are intended to replac

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, fault-tolerant sy:
communications, redundancy, server group, software robustness, system architecture

184 Social Analyses of Computing: Theoretical Perspectives in Recent Empirical Research
Rob Kling